Appl. No. 09/975,148; Filed: Oct 12, 2001
Dkt No. 2066.0110001 ; Group Unit: 2834
Inventor: Simon R. Wall Tel: 202-371-2600
Title: Detection of Islanded Behavior and Anti-Islanding
Protection of a Generator in Grid-Connected Mode

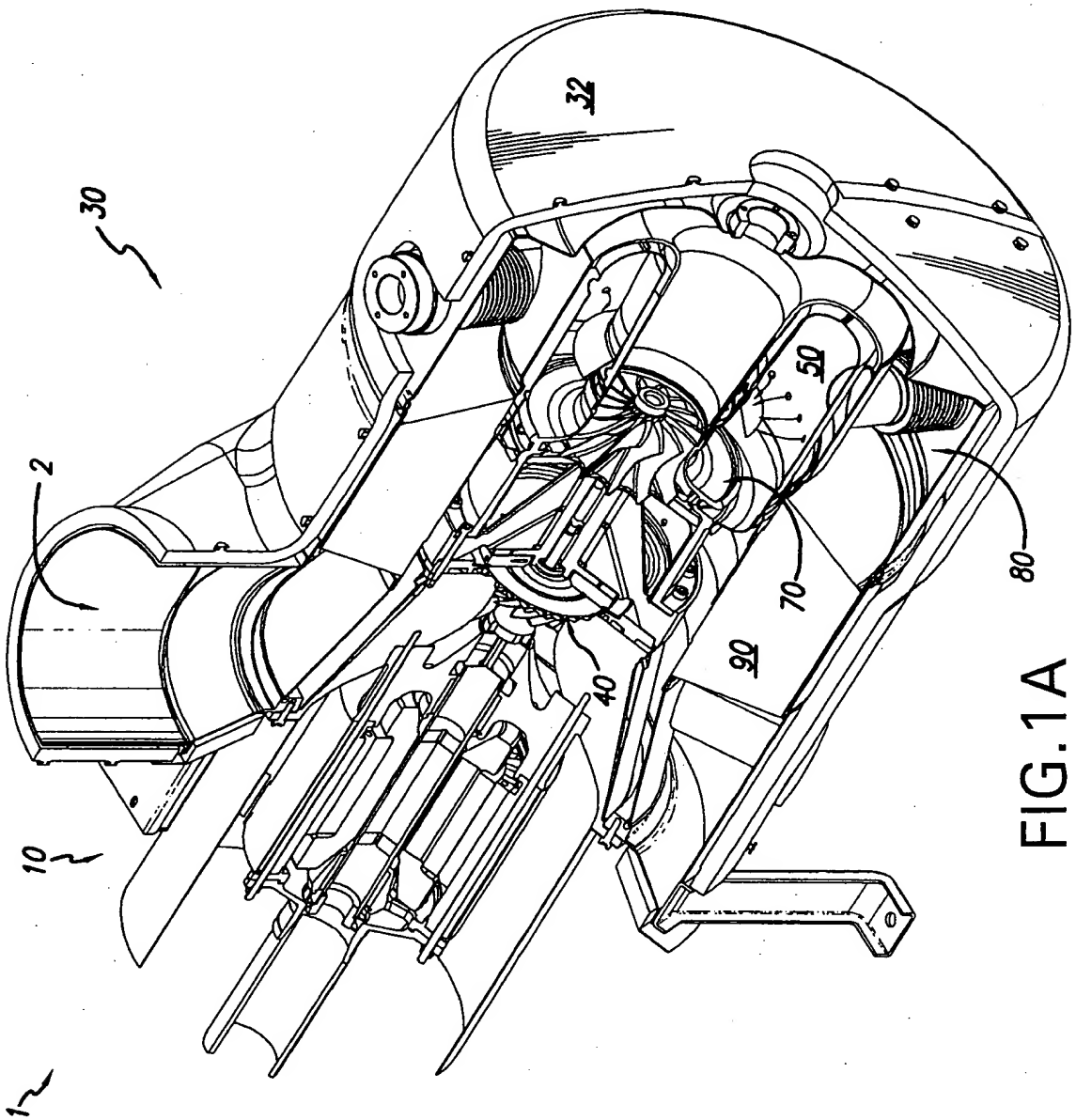

FIG. 1A

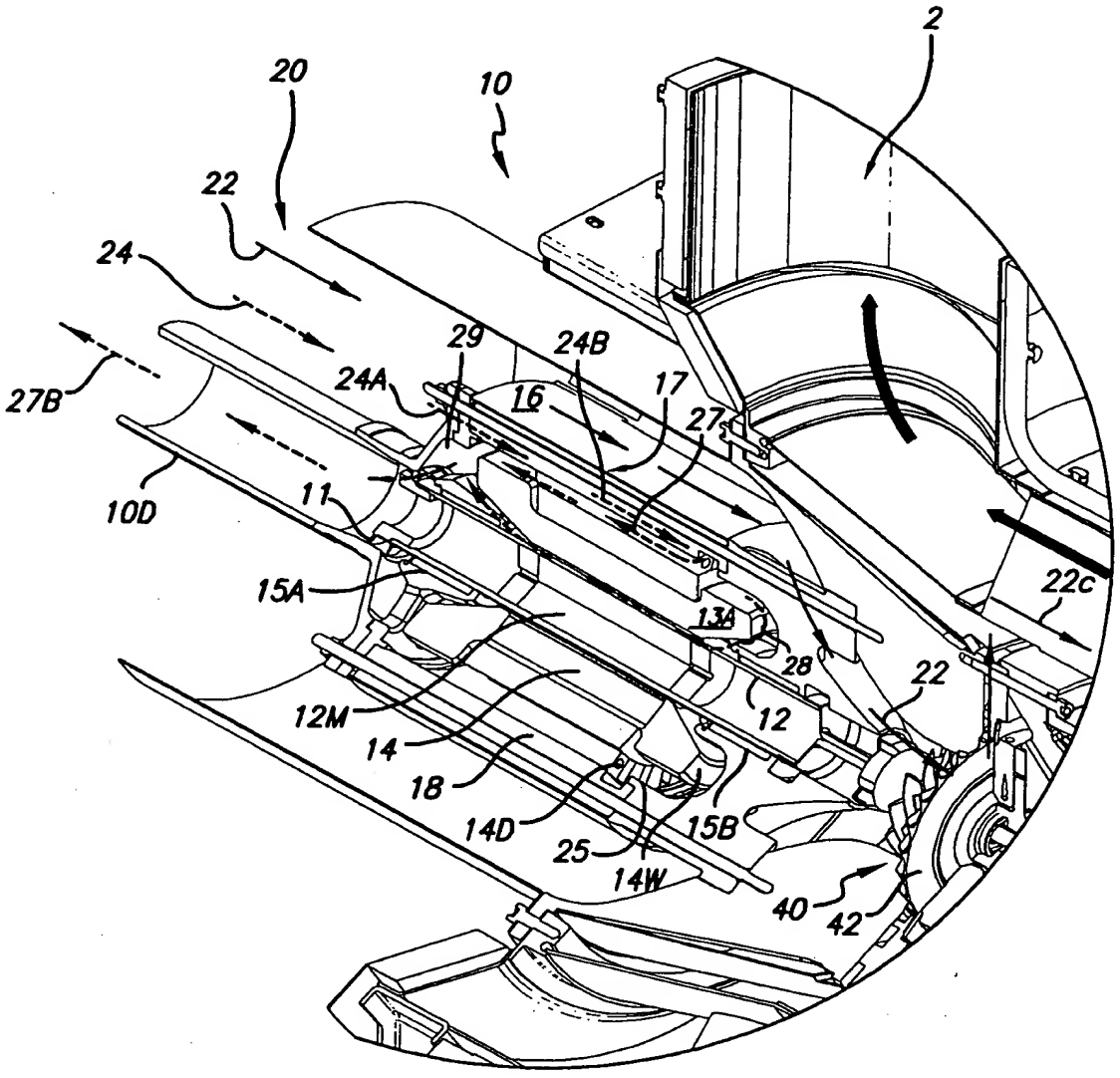

FIG.1B

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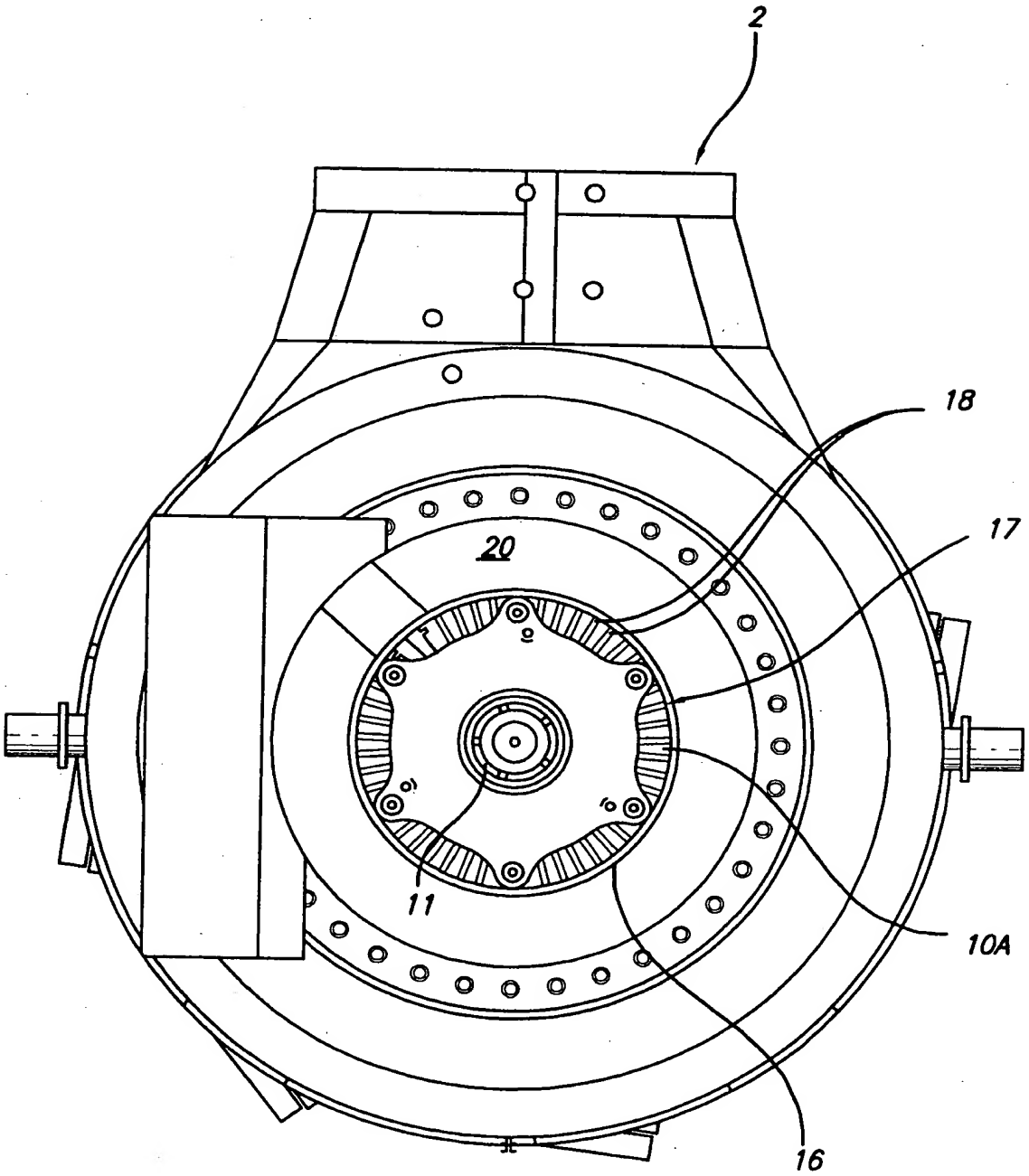

FIG.1C

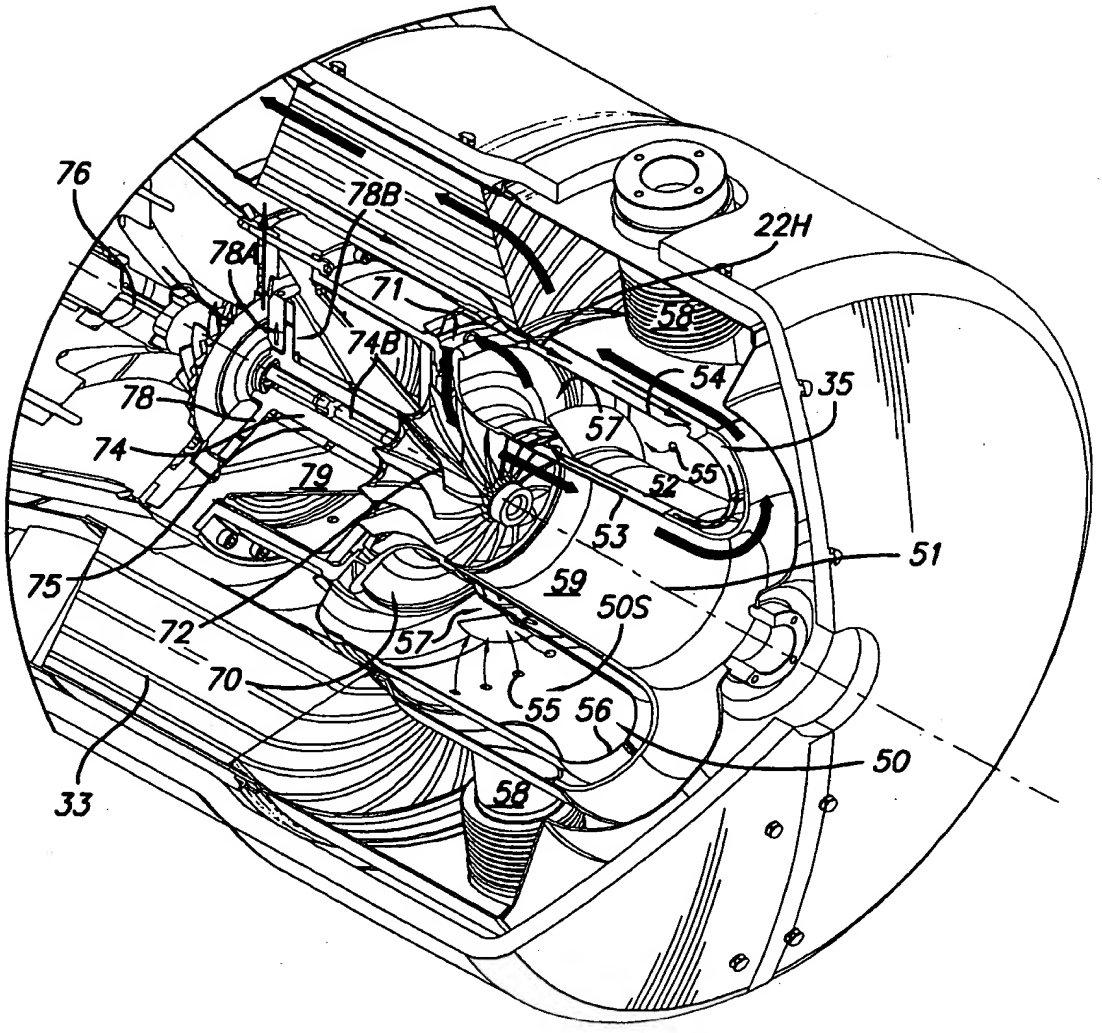

FIG.1D

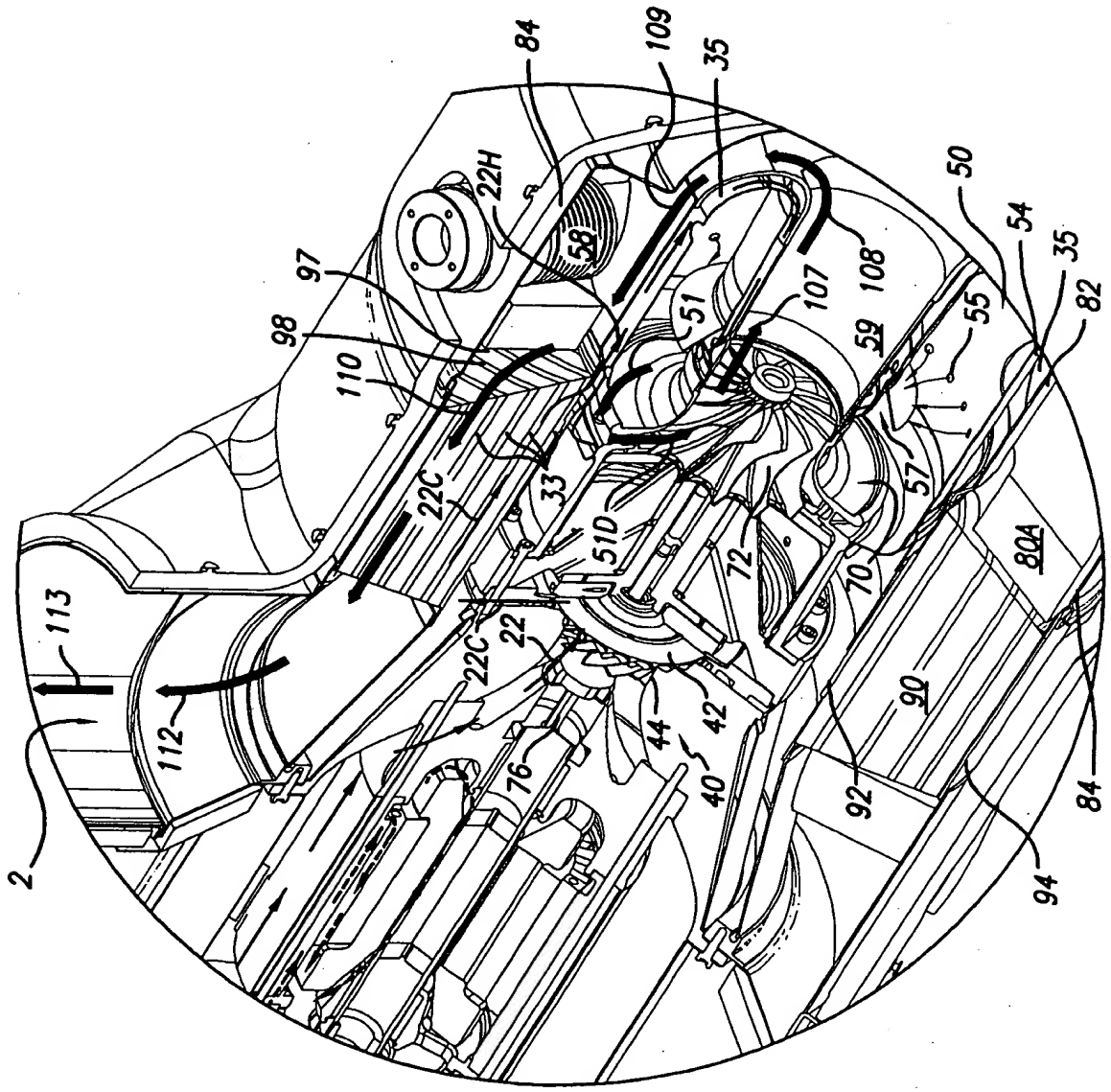

FIG. 1E

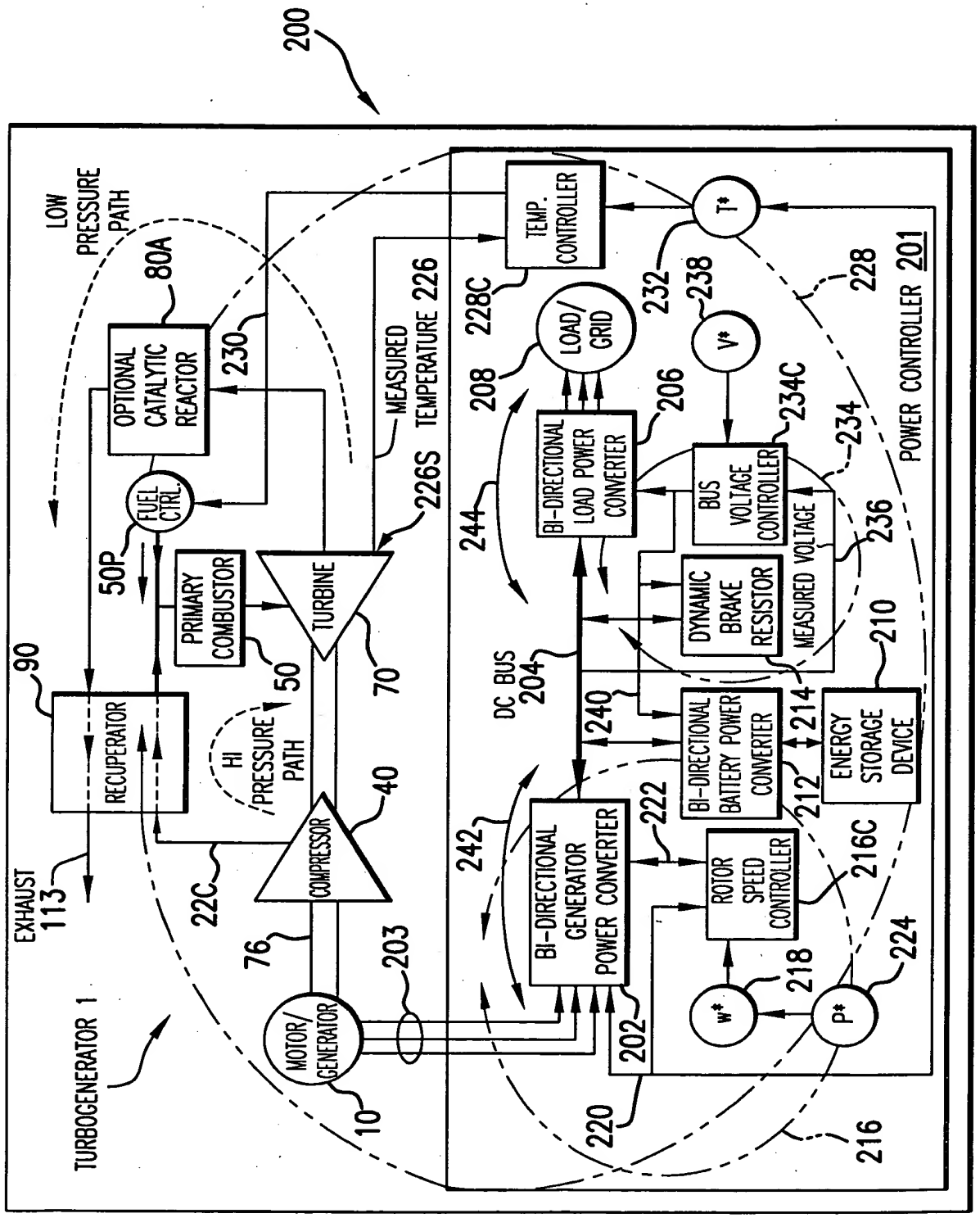

FIG.2

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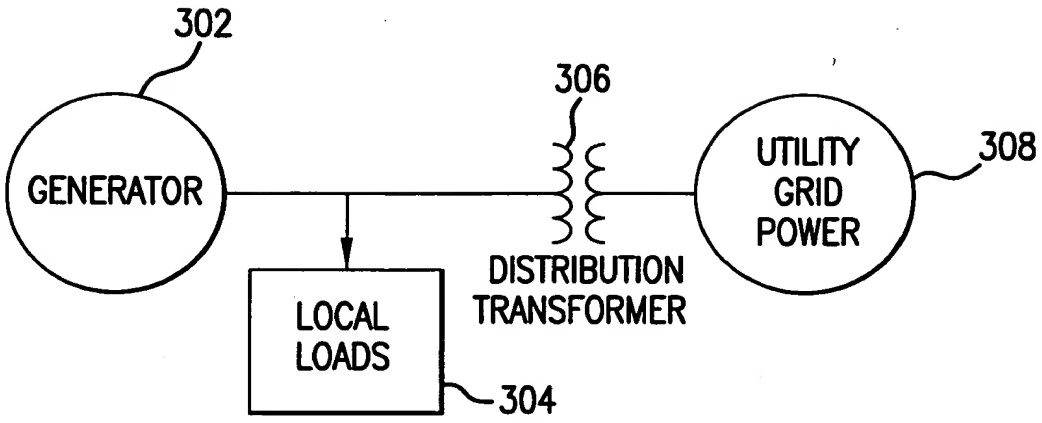

FIG.3

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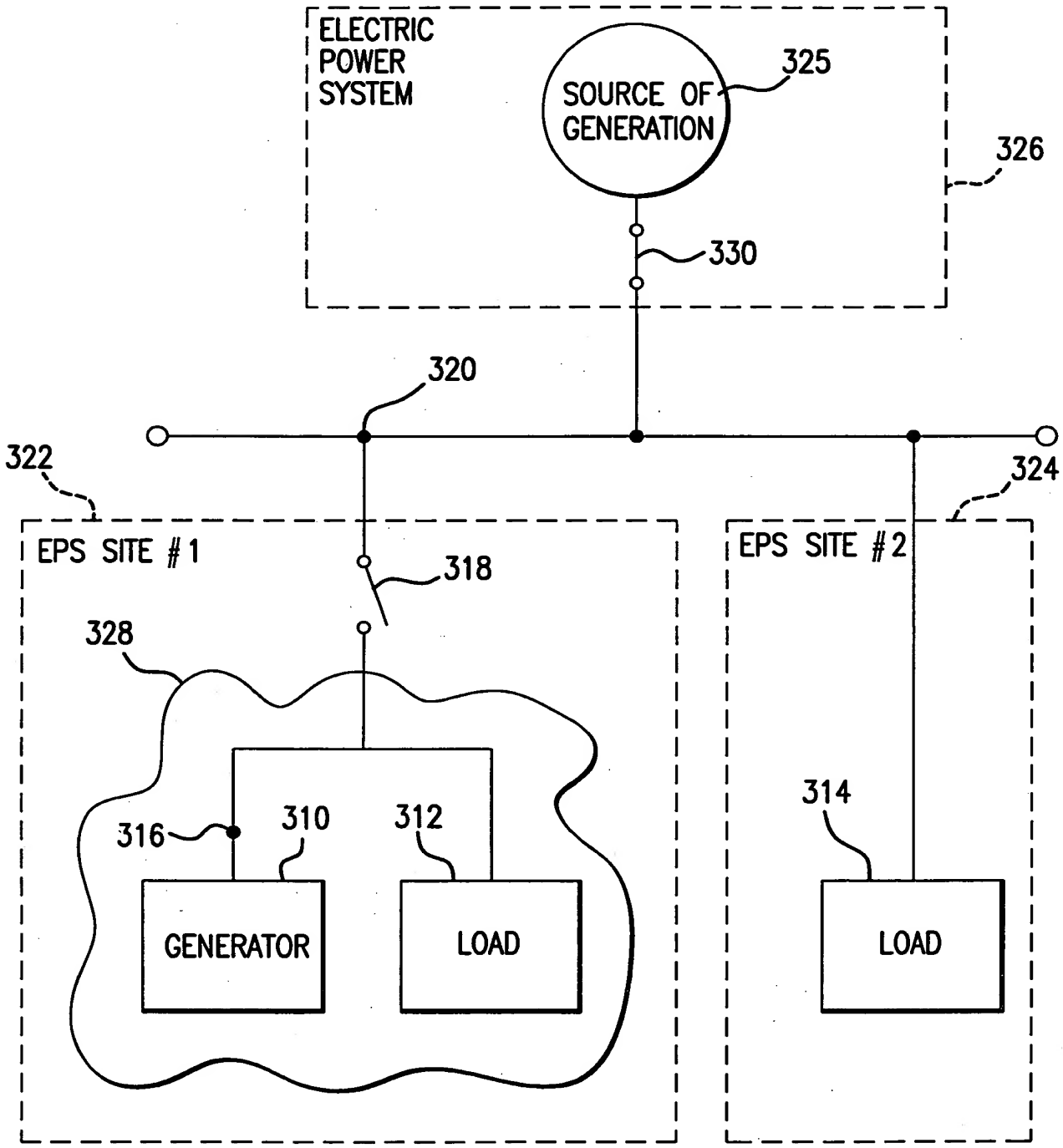

FIG.4

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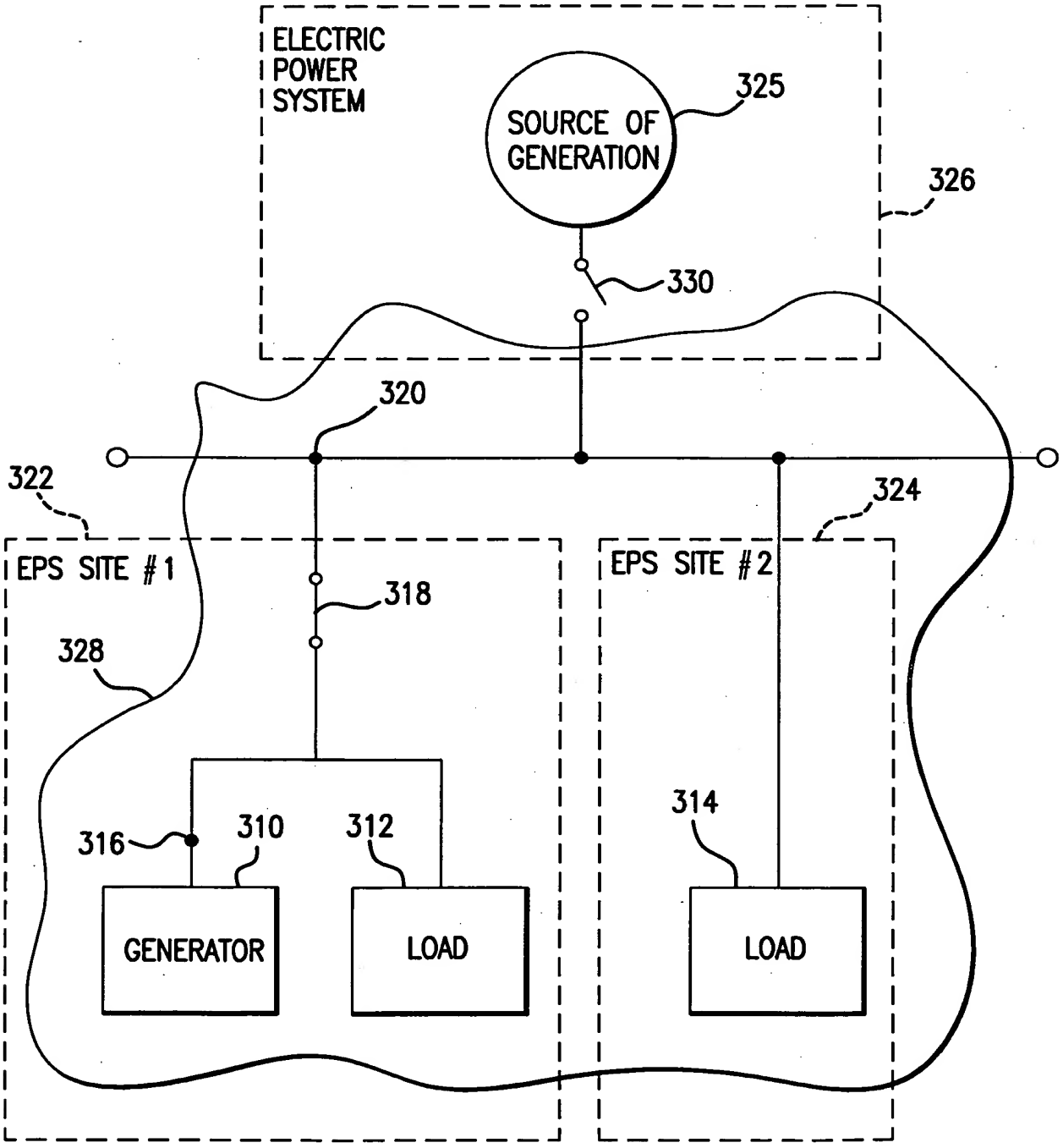


FIG.5

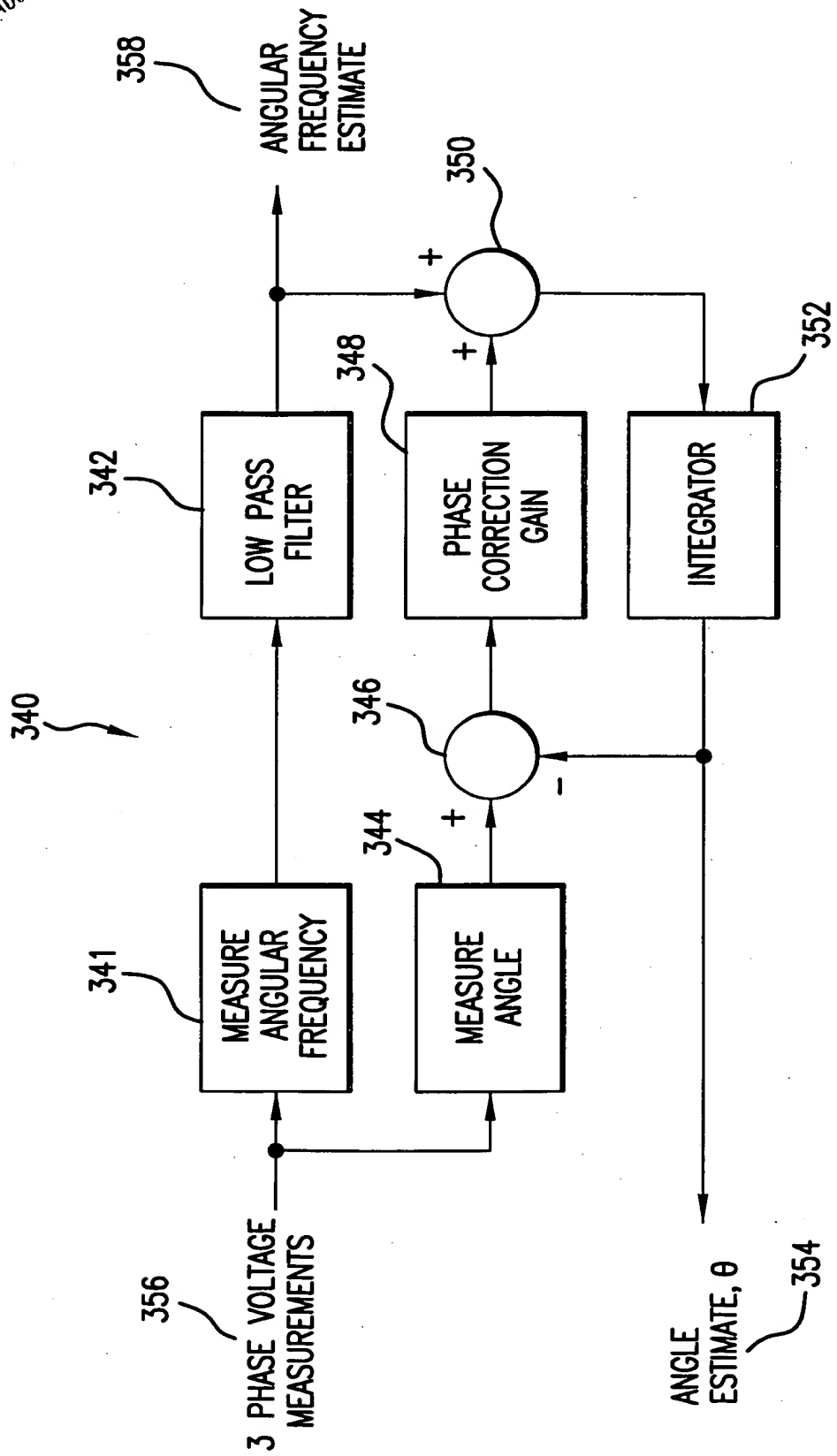
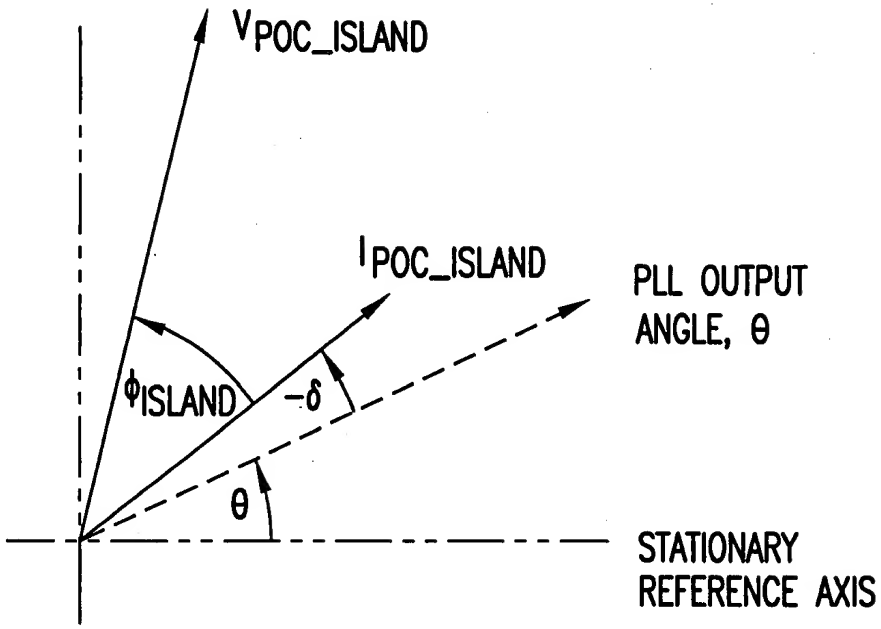


FIG.6



I_{POC_ISLAND}	ISLANDED DR GENERATOR CURRENT MAGNITUDE AT THE POC (A)
V_{POC_ISLAND}	ISLANDED VOLTAGE MAGNITUDE AT THE POC (V)
Z_{ISLAND}	IMPEDANCE MAGNITUDE OF THE ISLAND LOOKING INTO THE POC (Ω)
ϕ_{ISLAND}	IMPEDANCE PHASE-ANGLE OF THE ISLAND LOOKING INTO THE POC (RADIANS)
P_{DRG}	DEMANDED REAL POWER OUTPUT OF THE DR GENERATOR (W)
Q_{DRG}	DEMANDED REACTIVE POWER OUTPUT OF THE DR GENERATOR (LAGGING IS POSITIVE) (VAr)
θ	ANGLE OUTPUT FROM THE PLL (RADIANS)
δ	DEMANDED CURRENT PHASE ANGLE, $\delta=\tan^{-1}(Q_{DRG}/P_{DRG})$ (RADIANS)

FIG.7

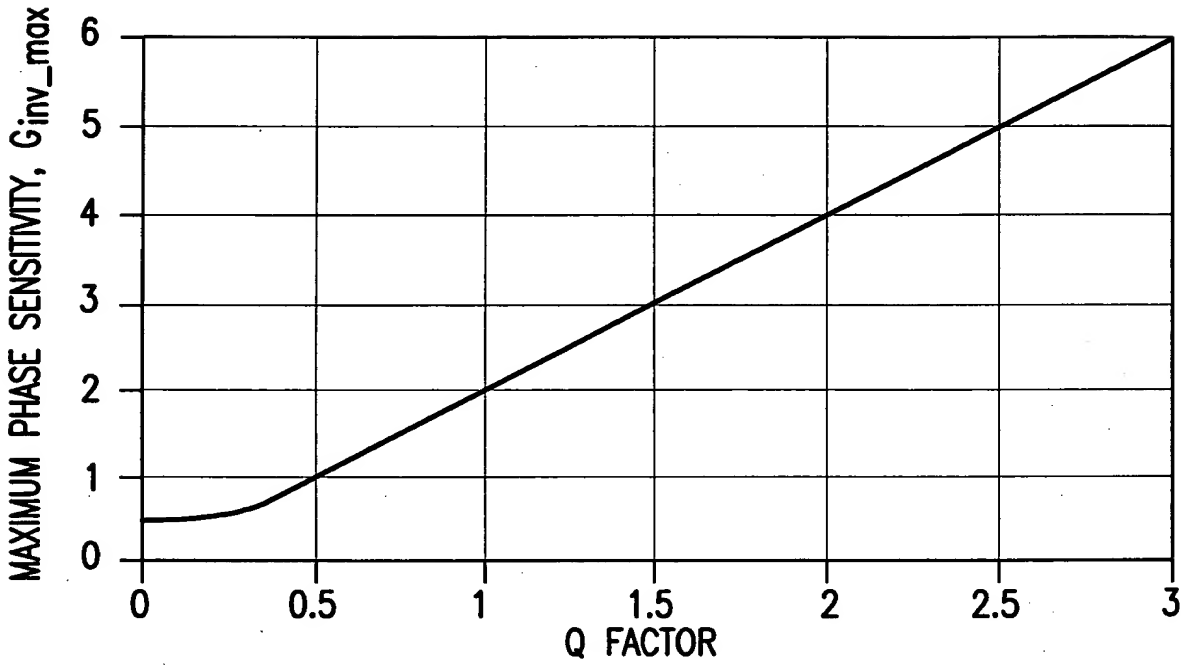


FIG.8

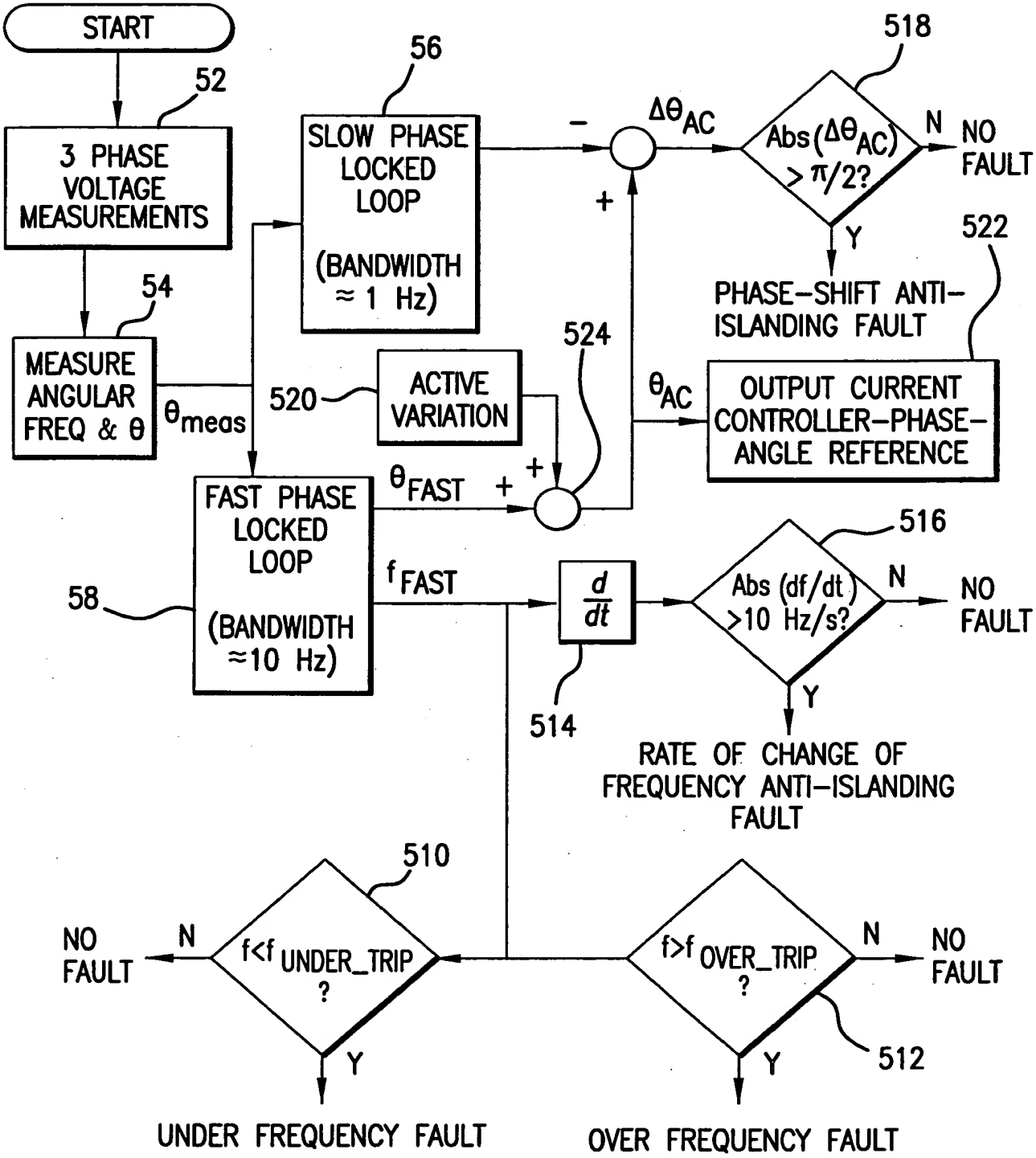


FIG.9A

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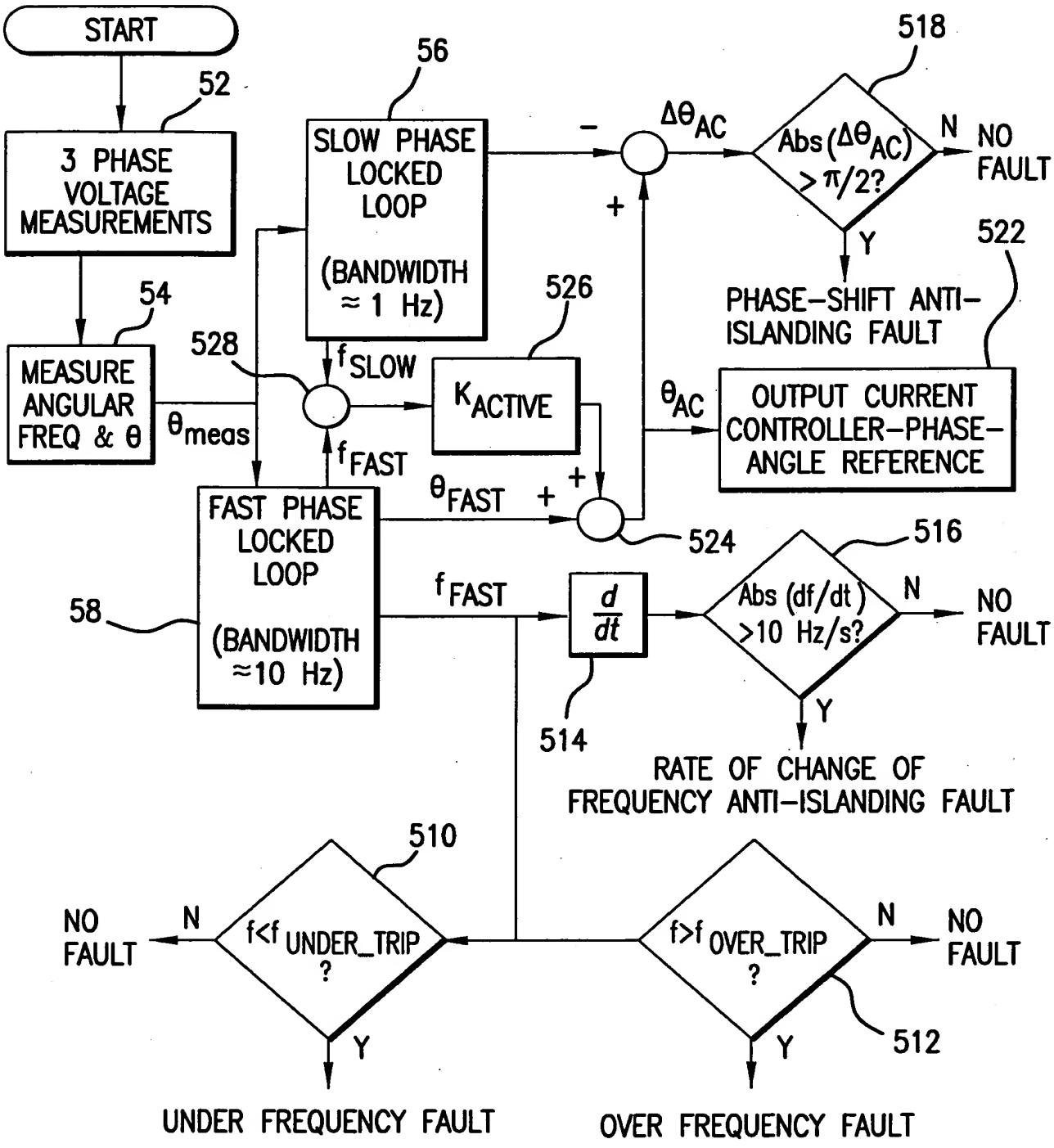

FIG.9B

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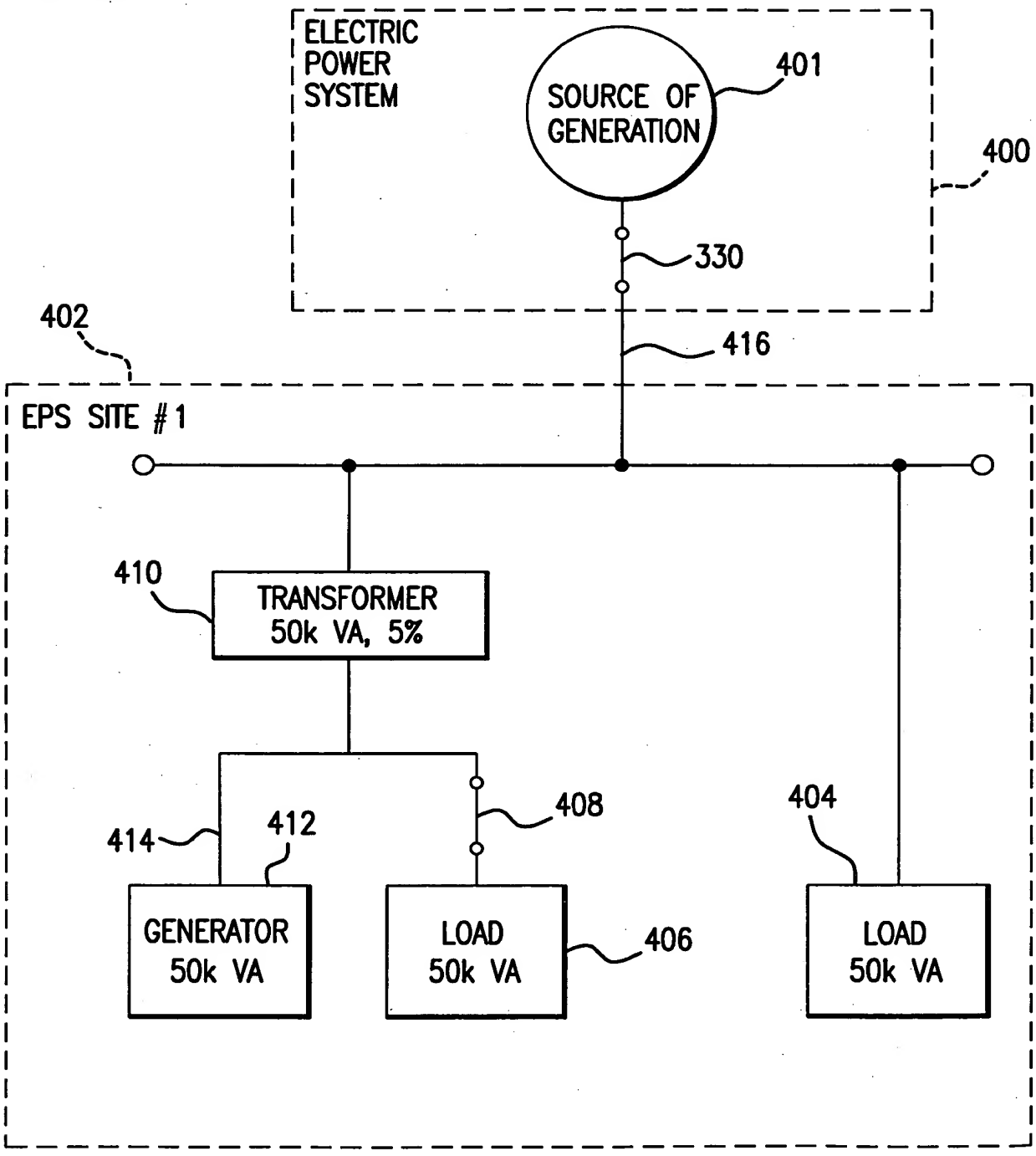

FIG. 10